



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,905	07/10/2003	Walter Moden	M4065.0071/P071-B	9541
24998	7590	12/04/2003	EXAMINER	
DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP			BUI, HUNG S	
2101 L STREET NW			ART UNIT	
WASHINGTON, DC 20037-1526			PAPER NUMBER	

2841

DATE MAILED: 12/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/615,905	MODEN, WALTER	
	Examiner	Art Unit	
	Hung S Bui	2841	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 29-38 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 29-38 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
 a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>07/10/03</u> . | 6) <input type="checkbox"/> Other: . |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 29-31, 34-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Solstad [US 4,689,875] in view of Hutchison et al. [US 4,132,856].

Regarding claims 29, 34-36 and 38, Solstad discloses an integrated circuit process comprising the steps of:

- forming a plurality of spaced apart electrical leads (16a-16h) held in position relative to each other by at least two conductive connecting strips (14a, 14b) extending between adjacent leads and arranged along opposite sides of a plurality of slots forming between the at least two conducting strips, wherein the plurality of spaced apart electrical leads extend outward from the at least two conductive connecting strips (figure 1);
- removing portion of the at least two conductive connecting strips located between adjacent leads; and

- subsequently forming insulating material (32) over the plurality of slots and between the connecting strips (figure 8, column 3, lines 32-64 and column 5, lines 13-61).

Solstad discloses the instant claimed invention except for the insulating material being applied prior to the removal of the conductive connecting strips.

Hutchison et al. disclose forming an integrated circuit package (figure 2) having a plurality of leads (14) and forming an insulating material over the plurality of leads prior to the application of insulating material (figure 12, column 8, lines 1-12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the insulation prior to the trimming process in order to facilitate testing of the package.

Regarding claims 30 and 37, Solstad discloses bending the electrical leads into a predetermined configuration (figures 4-7).

Regarding claim 31, Solstad in view of Hutchison et al. disclose the predetermined configuration including a non parallel configuration (figure 9).

3. Claims 32-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Solstad in view Hutchison et al. as applied to claim 29 above, and further in view of Hurose et al. [US 4,918,513].

Regarding claims 32-33, Solstad in view of Hutchison et al. disclose the instant claimed invention except for an insulating bridging member being integrally formed with an insulating frame surrounding the electrical leads.

Kurose et al. disclose an insulating bridging member being integrally formed with an insulating frame (8) surrounding electrical leads (figures 3-6) and subsequently removing the bridging member from a frame upon execution of the final assembly step.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the insulating frame design of Kurose et al. with Solstad in view of Hutchison et al., for the purpose of supporting the leads during the manufacturing process.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung S Bui whose telephone number is (703) 305-8024. The examiner can normally be reached on Monday-Friday 8:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David S Martin can be reached on (703) 308-3121. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-4349.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-5115.

11/26/03
HB



DAVID MARTIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800